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Record

Oct. 19, 2001

Volume 26 No. 9



Washington University in St. Louis

Bradley keynote speaker for Founders Day

By BARBARA REA

University employees, friends and alumni will gather Oct. 27 to commemorate the 148th anniversary of its founding.

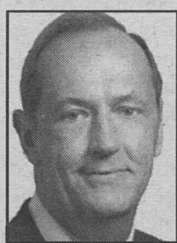
This year's Founders Day will follow tradition with the presentation of a guest speaker as well as the presentation of awards for distinguished faculty and alumni. In addition, the Board of Trustees will bestow the Robert S. Brookings Awards. At press time, the event was sold out.

The annual event is sponsored by the Alumni Board of Governors and commemorates the University's founding in 1853.

Bill Bradley will be the keynote speaker for the event, to be held this year at the Ritz-Carlton in

Clayton. Bradley also will participate in a special Founders Day event — exclusively for students — earlier in the day.

Bradley has achieved prominence as a basketball player,



Bradley

senator, writer, teacher and presidential hopeful. He was born in Crystal City, Mo., and first received national attention when he won the gold medal in basketball during the 1964 Olympics.

The three-time All-American basketball player from Princeton University graduated in 1965 with

a degree in American history. He earned a graduate degree from Oxford University, where he studied as a Rhodes Scholar.

During his tenure with the New York Knicks, Bradley helped lead the team to two National Basketball Association championships.

During his nearly 20 years of representing New Jersey in the Senate, Bradley tackled many large-scale reforms and was instrumental in the formation of the Tax Reform Act of 1986. He was a major influence among his colleagues in the Senate and widely respected for his intelligence and insight.

Bradley currently serves as managing director for Allen & Company Inc. and as chair of the

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Sesquicentennial Commission formed

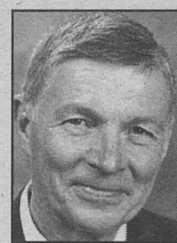
By JESSICA N. ROBERTS

2003-04 looks to be an exciting year for the University. Aside from citywide celebrations marking the anniversaries of the Lewis and Clark expedition and the founding of St. Louis, the University will celebrate the 150th anniversary of its founding.

In honor of the sesquicentennial, the University will hold a series of events beginning in September 2003 and running through Commencement 2004.

The University recently formed a Sesquicentennial

Commission in order to begin planning the events, according to



Virgil

Robert L. Virgil, Ph.D., commission chair, University trustee, former Olin School of Business dean and former executive vice chancellor for University

relations. The commission is composed of faculty, staff and

See Commission, Page 2



Green thumbs make a difference Adele Doyle, a senior in biomedical engineering, and Henry Asher, a member of U. City in Bloom, take part in a community garden beautification project at the southeast corner of Clemens and Westgate avenues in the Parkview Gardens Neighborhood Oct. 14. The project, developed by Bart Talley, coordinator for off-campus living, was a collaborative effort between University students residing off campus in the Parkview Gardens neighborhood north of Delmar Loop in University City and U. City in Bloom and was registered as a state and national "Make a Difference Day" volunteer activity.

Wrighton, Neighbors' Council host meeting to address issues

By JESSICA N. ROBERTS

Nearly 150 residents of nearby neighborhoods, faculty, administration and staff members came to Steinberg Hall Auditorium Oct. 8 for a "Report to Washington University Neighbors" co-hosted by Chancellor Mark S. Wrighton and the WU Neighbors' Council.

Flint Fowler, Parkview resident and Neighbors' Council member, opened the program by welcoming attendees, introducing special guests and reporting on the work of the council.

Wrighton spoke about current activities on campus, including events in response to the Sept. 11 tragedies. Wrighton also discussed the University's success in recruitment and its plans to keep the student body at its current size; the newly expanded Employer Assisted Housing Program; and campus events available to neighbors such as the Assembly Series, Edison Theatre performances and University athletic events.

The United States' current economic slowdown has also affected the University, Wrighton reported, as the University's investments declined for the first

time in at least six years. Some construction projects may be deferred as a result of the economic downturn.

"We're not immune to the decline in the economy," Wrighton said. "It tempers our enthusiasm for the rate of development of new projects."

Wrighton also touched on MetroLink expansion in his opening remarks, stating that MetroLink is a "very important project for our community, and we desire it to be safe, efficient, convenient and attractive."

Current Bi-State Development Agency plans for the extension — running from the Forest Park station to University City, Clayton, Richmond Heights, Brentwood and south to Maplewood and Shrewsbury — include above-ground trains running adjacent to the north side of the Hilltop Campus. Construction is scheduled to begin in 2002.

Numerous neighbors attending the meeting were there to express concerns about the current Bi-State plans. Earlier plans for the MetroLink expansion included trains running beneath land that would be donated to Bi-State by the University. Bi-State later

See Neighbors, Page 6

Heart's shape impacted by biomechanical forces

By TONY FITZPATRICK

The poet in us might see the heart as "a lonely hunter"; the adolescent as a toy that's easily broken. But the biomedical engineer sees the heart as a pump, plain and simple, a machine shaped by genetics and complex biomechanical forces.

Larry A. Taber, Ph.D., professor of biomedical engineering, has been probing the forces, stresses and deformations of the heart since the mid-1980s. A major focus of his work is to show that biomechanical forces may be as important as genetics in shaping the heart.

Recently, Taber has developed a

theory on tissue growth and morphogenesis — shape change — and applied it to understanding a chicken embryo's developing heart, which is remarkably similar to its counterpart in humans.

Taber is studying a phenomenon known as looping, one of the most critical stages of embryo heart development, where the heart at just 2 days of age in chickens (3 weeks in humans) bends outward and rotates to the right. This is an almost ballet-like move that must happen perfectly to avoid misconnections of arteries in the heart walls and holes in the heart, among other serious developmental problems.

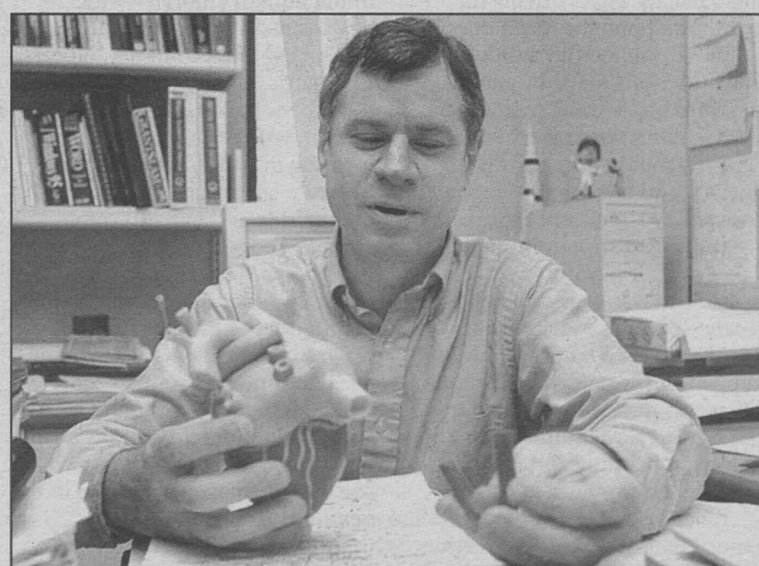
Taber's theory factors cellular

contraction into looping, and he has found that the split-second looping process of bending and rotation is actually driven by at least two different mechanical forces. His research could help scientists better understand the roles physics and mechanics play in the developing heart and in heart defects.

Because geneticists currently do most of the research in this field, Taber and other biomedical engineers studying heart development provide clues into the cause and effect of the gene's master plan, as well as a different perspective.

"You can knock out a gene and

See Heart, Page 2



Larry A. Taber, Ph.D., professor of biomedical engineering, studies forces, stresses and deformations of the heart.

Commission

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student representatives, as well as alumni, parents, trustees and other supporters.

"We'd like to get an early start, and if we plan accordingly, we can make this a great observation of Washington University's 150th anniversary," Virgil said. "It will be a wonderful chance to reflect on and celebrate our past and present achievements and look ahead to the University's future."

"We would like to make this event memorable and have an enduring result for the University."

The commission aims to involve the entire University community in the sesquicentennial events, which will be planned to meet the following goals:

- to assist in accelerating the ascent of the University among the premier universities in the world;
- to enhance the impact of the University on the world;
- to recognize present and future intellectual challenges, and to discuss and determine the role of the University in meeting them;
- to enhance the strong interdisciplinary teaching, research and community service missions that are the distinctive qualities of a University education;
- to take advantage of recurring events and programs, such as Founders Day, Commencement, reunions, Thurtene Carnival, the Assembly Series and other established lectureships;
- to draw the University community closer together around common objectives;
- to celebrate the people of the University and tell their stories;
- to engage students, prospective students, faculty and staff;
- to honor and involve alumni, parents, trustees and other friends of the University;
- to celebrate and enhance the University's partnership with the St. Louis region; and
- to identify new aspirations and forms of cooperation within the University and with other institutions.

Along with major festivities at the opening — Founders Day — and the close — Commencement — of the sesquicentennial year, the commission is planning events such as an Assembly Series for each school to celebrate its past and present and symposiums or other events from individual schools, institutes and centers that build on the interdisciplinary quality of the University.

In addition, events are being

planned to celebrate the interconnection between the University and the St. Louis region.

The sesquicentennial celebration will also reach far beyond the University's campuses. Events will be held for alumni in other cities, exhibits highlighting the University's past will be placed both on and off campus, and a global symposium linked with the Danforth Plant Science Center is in the works.

Steve J. Givens, assistant to the chancellor, was named on-campus coordinator for the commission. Virgil also announced three honorary commission co-chairs: William H. Danforth, chancellor emeritus and vice chairman of the Board of Trustees; David W. Kemper,

Suggestions sought

In order to ensure involvement from the entire University community, the Sesquicentennial Commission would like suggestions from faculty, staff and students on the planning of events for 2003-04. If you have any event ideas or comments on the planning of the 150th anniversary of University, e-mail Robert Virgil at bvirgil@aismail.wustl.edu or Steve Givens at sgivens@wustl.edu.

chairman, president and chief executive officer of Commerce Bancshares Inc.; and John F. McDonnell, chairman of the Board of Trustees.

Sesquicentennial Commission members

Along with Robert L. Virgil, Steve J. Givens, William H. Danforth, David W. Kemper and John F. McDonnell, the following people are currently members of the Sesquicentennial Commission:

Shirley K. Baker, vice chancellor for information technology and dean of the University Libraries; **Roger N. Beachy**, Ph.D., professor of biology in Arts & Sciences and president of the Donald Danforth Plant Science Center; **Iver Bernstein**, Ph.D., professor of history in Arts & Sciences; **David T. Blasingame**, vice chancellor of alumni and development programs; **Deborah F. Booker**, assistant dean and director of external relations in the school of business; **Rose Brower**, associate dean for engineering communications; **James R. Burmeister**, executive director of University relations; **Christopher I. Byrnes**, dean of the School of Engineering and Applied Science; **Michael R. Cannon**, executive vice chancellor and general counsel; **Barbara A. Cant**, director of human resources at the School of Medicine; **Jill E. Carnaghi**, assistant vice chancellor for students and director of campus life; **Justin X. Carroll**, assistant vice chancellor for students and dean of students; **Walter Chan**, officer of the Graduate and Professional Students Council; **Laura Chauvin**, assistant vice chancellor and director of alumni relations; **Theodore J. Cicero**, Ph.D., vice chancellor for research; **Philip E. Cryer**, M.D., the Irene E. and Michael M. Karl Professor of Endocrinology and Metabolism at the School of Medicine and the chair of the Faculty Senate Council; **John N. Drobak**, professor of law and chair of the University Judicial Board; **Barbara A. Feiner**, vice chancellor for finance and chief financial officer; **Iain A. Fraser**, professor of architecture; **John Gianoulakis**, executive vice chair, Alumni Board of Governors and attorney at Kohn, Shands, Elbert, Gianoulakis & Giljum LLP; **Stuart I. Greenbaum**, Ph.D., dean of the Olin School of Business; **Joan M. Hall**, the Kenneth E. Hudson Professor of Art; **Steven P. Hoffner**, assistant vice chancellor for students and director of operations; **Martin H. Israel**, Ph.D., professor of physics in Arts & Sciences; **Kenneth L. Jerina**, D.Sc., director of graduate studies and programs and the Earl E. and Myrtle E. Walker Professor of Engineering; **Leslie E. Kahl**, M.D., professor of medicine; **Shanti K. Khinduka**, Ph.D., the George Warren Brown Distinguished University Professor and dean of the George Warren Brown School of Social Work; **Jonathan Lee**, officer of the Congress of the South 40; **James T. Little**, Ph.D., professor of

economics and finance; **Pamela S. Lokken**, director of community and governmental relations; **Edward S. Macias**, Ph.D., executive vice chancellor and dean of Arts & Sciences; **James E. McLeod**, vice chancellor for students and dean of Arts & Sciences; **Leah Merrifield**, director of community relations; **Susan Nickrent-McMurt**, director of common space management and conference planning; **Marie P. Oetting**, chairman of the Alumni Board of Governors; **William A. Peck**, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; **Jeff C. Pike**, dean of the School of Art; **Kenneth S. Polonsky**, M.D., the Adolphus Busch Professor and chairman of the department of medicine; **Ann B. Prenatt**, executive director of human resources; **Carol A. Prietto**, University archivist; **Enola E. Proctor**, Ph.D., the Frank J. Bruno Professor of Social Work Research; **Ralph S. Quatrano**, Ph.D., the Spencer T. Olin Professor and chair of the department of biology in Arts & Sciences; **Justin L. Ragner**, president of Student Union; **Peter H. Raven**, Ph.D., director of the Missouri Botanical Garden and the Engelmann Professor of Botany in Arts & Sciences; **Barbara Rea**, director of major events and special projects; **Richard A. Roloff**, executive vice chancellor; **Sarah Russell**, associate dean of the faculty of Arts & Sciences; **John M. Schael**, director of athletics; **Joel Seligman**, dean of the School of Law; **James D. Singleton**, associate professor of art; **Julie and Bob Skandalaris**; **Philip D. Stahl**, Ph.D., the Edward Mallinckrodt, Jr. Professor and head of the department of cell biology and physiology at the medical school; **Salvatore P. Sutura**, Ph.D., the Spencer T. Olin Professor of Engineering; **Harriet K. Switzer**, Ph.D., secretary to the Board of Trustees; **Robert E. Thach**, Ph.D., dean of the graduate school and professor of biology, both in Arts & Sciences; **Nancy Parker Tice**, special assistant to the dean in the School of Medicine; **M. Fredric Volkmann**, vice chancellor for public affairs; **Cynthia Weese**, dean of the School of Architecture; **James V. Wertsch**, Ph.D., chair of the Department of Education in Arts & Sciences; **Gloria White**; **Gerrild S. Williams**, Ph.D., associate vice chancellor and special assistant to the chancellor for academic affairs, and the Barbara Schaps Thomas and David M. Thomas Professor in the Humanities in Arts & Sciences; **Edward N. Wilson**, Ph.D., professor of mathematics in Arts & Sciences; **Robert E. Wiltenburg**, dean of University College and assistant dean of Arts & Sciences; and Chancellor **Mark S. Wrighton**.

Development," in the 2001 edition of Annual Review of Biomedical Engineering. His work is supported by the National Institutes of Health.

The chicken embryo heart is very similar to the human heart in its development processes. It takes 21 days to hatch a chicken. On the first day, tubes form on two sides of the embryo and come together to form one tube. At this juncture — two-and-a-half weeks in the human embryo — the heart is just starting to beat.

During the second day, blood flow starts, and by the third day the tube is beginning to look like a heart, with septums later forming in two different regions to create left and right ventricles on one side and left and right atria on the other.

Taber and his colleagues are stumped so far on the bending component of looping, though his graduate student, Evan Zamir, has developed techniques that will help them measure the stiffness in different regions of the heart tube. It appears that regional stiffness plays a role in bending.

Another student, Mathieu Remond, is looking into whether cells in one region might contract

more than cells on other sides, forcing the bending.

As for rotation, another Taber collaborator, Dimitri Voronov, Ph.D., a visiting scientist at the University, has discovered that a membrane that covers the tube may play a major role in causing the rotation to go to the right.

"We believe that when the heart is formed, it's slightly biased to the right normally, and that the membrane pushes it the rest of the way," Taber said.

Taber says engineers are just now looking at growth in the mature heart. His theory will be valuable in looking at these situations. Growth occurring in the mature heart is extremely important and plays a role in adaptation to high blood pressure (thicker heart walls) and heart attack.

"On the horizon, people are going to be looking at how the mechanical properties of the heart change as it develops," Taber said. "The active properties of heart tissue cause shape changes, as well as cause the heart to beat and pump blood. Until we have a handle on these properties, we cannot trust the predictions of our theoretical models."

International criminal court to be addressed in law debate

By ANN NICHOLSON

The School of Law's Institute for Global Legal Studies will present a debate on "Should the United States Ratify the International Criminal Court Treaty?" from noon-1:30 p.m. Oct. 22. The event, the inaugural debate in the law school's International Debate Series, will be held in Anheuser-Busch Hall Room 401 and is free and open to the public.

International law experts have said such a court — along the lines of the International Criminal Tribunal for the Former Yugoslavia — could be used to prosecute Osama bin Laden and others allegedly involved in the Sept. 11 terrorist attacks on the World Trade Center and Pentagon.

Michael P. Scharf, J.D., associate professor of law and director of the Center for International Law and Policy at New England School of Law, will argue for ratification of the International Criminal Court Treaty. Lee A. Casey, J.D., an expert in international humanitarian law and a former attorney with the U.S. Department of Justice, will argue against ratification.

William H. Freivogel, J.D., deputy editorial page editor for the St. Louis Post-Dispatch, will serve as the moderator.

Currently, hundreds of treaties attempt to address international crime related to wars, human-rights abuses and terrorism, but enforcement has been problematic and the actual criminal conduct covered is not always clear, noted debate coordinator Leila Nadya Sadat, J.D., LL.M., D.E.A., University professor of law and an expert on international war crimes tribunals.

Efforts now are under way to form a permanent international criminal court to deal with such atrocities and to mediate disputes. However, the U.S. government is among those opposing current provisions in the proposed International Criminal Court Treaty, which must be ratified by

60 nations.

Scharf previously served at the U.S. Department of State Office of the Legal Adviser. Among his duties, he was counsel to the Counter-Terrorism Bureau, attorney-adviser for law enforcement and intelligence and attorney-adviser for United Nations affairs.

He has written dozens of articles and several books in the areas of human rights and international criminal law, including "Balkan Justice," which was nominated for a Pulitzer Prize in 1998. He teaches criminal law and international law courses.

Casey is a partner in the Washington, D.C., firm of Baker and Hostetler. In addition to international humanitarian law, he specializes in administrative, environmental, federal constitutional and public international law. From 1986-1993, he served in various capacities in the federal government, including the Office of Legal Counsel, the Office of Legal Policy at the U.S. Department of Justice and the U.S. Department of Energy.

The Office of Legal Counsel is responsible for advising the attorney general and the White House on issues of constitutional law and statutory interpretation. The Office of Legal Policy served as a think tank for the Reagan Justice Department and was responsible for reviewing candidates for appointment to the federal bench.

Casey has published widely on international law and governmental issues.

Freivogel has worked for the Post-Dispatch for 30 years, including 12 years in the newspaper's Washington, D.C., bureau, where he was assistant bureau chief and covered the Supreme Court. An alumnus of the law school, he is a member of the Missouri Bar and has written extensively about legal issues.

For more information on the debate, call 935-7988.

Campus Watch

The following incidents were reported to University Police **Oct. 9-14**. Readers with information that could assist in investigating these incidents are urged to call **935-5555**. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

Oct. 10

6:19 p.m. — A University police officer observed three students behind Burton M. Wheeler House smoking a green, leafy substance, believed to be marijuana, from a homemade device. The three were taken into custody for violation of the Missouri Controlled Substance Act and will be referred to the Judicial Administrator.

Oct. 12

4:10 p.m. — A University employee reported that an unknown person took a gold

plaque off the southwest wall of Anheuser-Busch Hall Room 308. Total loss is valued at \$500.

Oct. 14

1:21 p.m. — A student reported the theft of eight compact discs from a CD case in the north side basement of the Sigma Alpha Epsilon fraternity house. The theft occurred sometime between 1-4 a.m. Oct. 14. Total loss is valued at \$120.

Additionally, University Police responded to two reports of vandalism.

Heart

— from Page 1

the heart might do something, but you don't really know the underlying mechanism," Taber said. "You only know you take this gene out and you see this effect."

"My collaborators and I are between the gene and the effect that people see. We're trying to understand exactly what's driving the heart to respond the way it does."

Taber pointed out a difference in distinctions made by geneticists and biomedical engineers.

"Genetics researchers will say 'The heart either loops or it doesn't, and if it loops it either goes left or right,' and those often are the only distinctions made," Taber said. "They don't say, 'It's possible that it bends and doesn't rotate.' In our experiments, however, we see that that might happen. The point we're trying to get across now is that to understand heart development, we have to look at bending and rotation as distinct components."

Taber discussed his theory, experiments and future direction of cardiac biomechanics in "Biomechanics of Cardiovascular

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Medical School Update

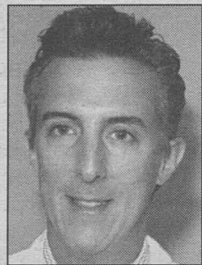
Cheaper antibiotics effective for uncomplicated sinusitis

By DARRELL E. WARD

New research shows some older, cheaper antibiotics are just as effective in treating acute, uncomplicated sinusitis as are newer, more expensive drugs.

The study, conducted by researchers at the School of Medicine and Express Scripts Inc., appears in the Oct. 17 issue of the Journal of the American Medical Association.

"Our findings suggest that doctors should keep it simple when treating adults for acute, uncomplicated sinusitis," said Jay F. Piccirillo, M.D., associate professor of otolaryngology and lead author of the study. Express Scripts, a St. Louis-based pharmacy benefit management firm, provided the data for the study.



Piccirillo: Study's lead author

Acute sinusitis is an infection and inflammation of the paranasal sinuses — those above, below and on either side of the nose — of four weeks' duration or less. About 35 million people in the United States are affected by sinusitis each year, generating almost 3 million doctor's office visits.

In this study, researchers examined data from 29,102 adults who received initial antibiotic treatment for acute uncomplicated sinusitis between July 1, 1996, and June 30, 1997.

The team found that 17 different antibiotics had been prescribed to sinusitis patients. These antibiotics were categorized as first-line or second-line. First-line antibiotics, such as amoxicillin, co-trimoxazole and erythromycin, generally are recommended for initial treatment of an infection.

Second-line antibiotics, such as clarithromycin and amoxicillin-clavulanate, are intended for patients who are not helped by or cannot tolerate first-line drugs.

First-line antibiotics typically are older and less expensive than second-line drugs. Second-line drugs also target a wider range of bacteria than first-line drugs.

The study revealed that 60 percent of all patients in the database had received first-line antibiotics, while 40 percent had received second-line therapy. Primary-care physicians prescribed first-line antibiotics 60 percent of the time, while specialists prescribed second-line antibiotics 63 percent of the time.

The researchers deemed treatment to be successful if the patient did not require additional antibiotics for 28 days following initial treatment. Those patients who received first-line antibiotics had a 90.1 percent success rate, while those who received second-line drugs

had a 90.8 percent success rate.

"A 0.7 percent difference between the two groups is too small to be clinically significant," said Piccirillo, who also is director of the Clinical Outcomes Research Office in the Department of Otolaryngology. "Essentially, the two types of antibiotics were equally successful."

But while the effectiveness of the two groups of drugs was nearly identical, their cost was strikingly different. Charges for patients who received first-line antibiotics were, on average, \$68.98, while charges for those given second-line antibiotics were \$135.17, a difference of \$66.19.

"By showing that cost is the only difference between first- and second-line antibiotics in the treatment of acute uncomplicated sinusitis, this study validates nationally accepted practice guidelines recommending initial use of first-line over second-line antibiotics," said Mark Frisse, M.D., chief medical officer of Express Scripts and a co-author of the study.

Initial treatment of the disorder is further complicated by the fact that sinusitis usually begins as a viral infection. Antibiotics should be used to treat bacterial infections; indiscriminate use of antibiotics has contributed to the emergence and spread of antibiotic-resistant bacteria.

"Because of this problem," Piccirillo said, "patients with signs and symptoms of acute uncomplicated sinusitis should be treated only with a decongestant for the first three to five days."

Most viral infections run their course in seven to 10 days, he said. "After about five days, a person with a viral infection should begin feeling better," Piccirillo said. "If, on the other hand, their nasal discharge becomes more colored — yellow or green — and they are in more pain, then a course of antibiotics is appropriate."

Funding for the study, along with pharmacy and medical claims data, was provided by Express Scripts. Piccirillo served as a paid consultant for Express Scripts.

Nerve injury may affect lungs

By ANNE ENRIGHT SHEPHERD

A new study at the School of Medicine will investigate the effect of denervation, or loss of nerves, on the function of airways in the lungs.

The research, funded by a four-year, \$1.1 million grant from the National Heart, Lung and Blood Institute, could lead to new therapies for airway inflammation after lung transplantation or for stretch injury after mechanical ventilation.

Until recently, all nerve cells in the lungs were thought to be alike, serving simply as relay stations for nerve impulses.

"It turns out that many of these neurons have very different characteristics from each other," said J. Julio Pérez Fontán, M.D., professor of pediatrics and anesthesiology and leader of the study.

For example, many of them produce substances that may protect the lungs from foreign particles by attracting inflammatory cells to the area.

Pérez Fontán's study will look

at the role of one of those substances during the inflammation response in the lungs. Substance P, as it is called, is released by nerve cells in the lungs after contact with toxins like capsaicin, an irritant found in hot peppers. Inhaling capsaicin causes coughing, release of mucus and other defense mechanisms.

The researchers will study how the lungs of genetically manipulated mice respond to a variety of situations known to cause inflammation both in the absence of substance P and when excess amounts of substance P are produced.

Transplanted lungs have blood vessels and airways that are connected to the rest of the body during transplantation surgery, but the nerves cannot be connected and usually do not re-grow on their own. By studying mice with transplanted airway tissue, Pérez Fontán and his colleagues will provide insight into how the lungs adapt to the absence of these nerves in their ability to respond to a variety of inflammatory stimuli.

Volunteers needed for closed head injury study

By GILA Z. RECKESS

Individuals who are experiencing memory problems and have had a documented closed head injury more than one year ago, may be eligible to participate in a clinical trial at the School of Medicine. The study will examine the effects of a new memory drug over a 12-week period.

It is estimated that more than 1.9 million cases of closed head injury occur each year. The debilitating physical, neurological and emotional deficits that can occur as a result of a closed head injury often persist throughout

the rest of the victim's life.

Many individuals are cognitively impaired and require long-term hospitalization or intensive home-care treatments, thus placing tremendous financial and emotional strain on the family, health-care providers and the national health-care budget. Researchers therefore are investigating whether this memory drug can recover some lost cognitive abilities and help improve the quality of life for closed head injury patients.

For more information about this study, call Stacy Stiening at 286-2477.



Planning for accessibility (From left) Architecture student Breen Masciotra wears goggles that simulate vision impairment, and architecture student Kara Medow tries out a wheelchair as occupational therapy student Tina Butterfield discusses disability issues Oct. 8 in Kemp Hall. As part of an independent study project, occupational therapy students presented information that students in the School of Architecture can consider when designing buildings, playgrounds and other structures to be accessible to people with disabilities. Students from the two programs are working together to develop guidelines for a similarly accessible playground in Forest Park.

Cell sorter facility to open at Siteman Cancer Center

By BARBRA RODRIGUEZ

The newest core facility of the Alvin J. Siteman Cancer Center of Washington University and Barnes-Jewish Hospital will open this fall in Room 120 of the Biotechnology Center to assist investigators at the School of Medicine.

An open house is scheduled for Oct. 31, 1-5 p.m.

The High-Speed Cell Sorter Core houses the Modular Flow Cytometer, or MoFlo, from Cytomation Inc. The instrument allows researchers to quickly analyze and separate populations of cancer cells, other cells or particles of varying shapes.

Samples can be phytoplankton, bacteria or even cellular components, such as mitochondria. Particles from 0.05 micrometer to 100 micrometers or more can be sorted based on size and surface components.

Researchers also are able to distinguish between differences in cells' cytoplasmic components or DNA. Sample processing often can be completed in an hour.

"The MoFlo will analyze as many as 100,000 events per second, and it will sort 70,000 events per second at an exceptionally high purity," said William C. Eades, research associate and lab manager for the High-Speed Cell Sorter Core. Timothy A. Graubert, M.D., assistant professor of medicine, directs the core facility.

Researchers can attach 10 or more different antibodies to distinct surface components on sample particles. A small stream of liquid containing the particles then is directed to flow through the beam of the machine's lasers, two of which are adjustable to many different wavelengths. These activate, or excite, fluorescent molecules attached to the surface-

bound antibodies.

By detecting light that is then emitted by the fluorescent molecules, the MoFlo calculates the percent of the sample's particles bearing each surface molecule. Particles representing less than 1 percent of a sample can be separated into up to four different groups simultaneously, based on differences in expression level of surface markers.

The core will provide laboratory equipment for handling of samples, which can be analyzed at 37 degrees Celsius or colder conditions. Eades also will provide free software for sample analysis to investigators who use the instrument.

Although all investigators will pay the same fee, Siteman Cancer Center members have priority access to the MoFlo.

For more information, contact Eades at 362-9364 or beades@im.wustl.edu.

Flu shots offered to School of Medicine employees, students

Influenza vaccines will be available free to all School of Medicine employees and students while supplies last.

Anyone wishing to receive a flu shot must present valid medical school identification and go to one of the following locations wearing short sleeves or loose-fitting clothing. No appointments are necessary.

• Nov. 6, 1-3 p.m., McDonnell Pediatric Research Building lobby

• Nov. 8, 8-10 a.m.,

McDonnell Pediatric Research Building lobby

• Nov. 9, 1-3 p.m., Barnes West Professional Building 1 lobby

• Nov. 13, 1-3 p.m., Seashell Lobby of the McDonnell Medical Sciences Building

• Nov. 20, 1-3 p.m., 4444 Forest Park Ave. lobby

Anyone who cannot make one of the scheduled times may call the Employee Health Service at 362-3528 for an appointment.

University Events

Complex Bodies • West Nile Virus • Hedgehog Signaling

"University Events" lists a portion of the activities taking place at Washington University Oct. 19-31. Visit the Web for expanded calendars for the School of Medicine (medschool.wustl.edu/events/) and the Hilltop Campus (cf6000.wustl.edu/calendar/events/).

Exhibitions

"Relative Perspectives: A Retrospective of the Architecture, Illustration, Jewelry Design and Painting from 1925-2001 of One St. Louis Family." The Shank family. Through Oct. 28. Des Lee Gallery, 1627 Washington Blvd. 621-8735.

"The Triple Crown Abroad: The Kelmscott, Doves, and Ashdene Presses Beyond the British Isles." Opens Oct. 19. Special Collections, Olin Library (reception 8 p.m. Oct. 19). 935-8003.

Film

Monday, Oct. 22

6 p.m. Chinese Film Series. "Temptress Moon." Room 219 Ridgley Hall. 935-5156.

Thursday, Oct. 25

6 p.m. Near Eastern Film Series. "Layla." Room 219 Ridgley Hall. 935-5156.

Monday, Oct. 29

6 p.m. Japanese Film Series. "Ghost of Yotsuya." Room 219 Ridgley Hall. 935-5156.

Lectures

Friday, Oct. 19

9:15 a.m. Pediatric Grand Rounds. "Chronic Kidney Disease - What's New?" Keith A. Hruska, prof. of pediatrics, of cell biology and physiology, and the Ira M. Lang Prof. of Nephrology; dir., pediatric nephrology. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Genetics seminar. "Duplication of Achaete-scute Genes and the Development and Evolution of Bristle Pattern in *Drosophila*." Pat Simpson, zoology dept., Cambridge U., England. Room 823 McDonnell Medical Sciences Bldg. 362-2062.

Noon. Cell biology and physiology seminar. "Synaptic Growth and Function: A Genetic Analysis in *Drosophila*." Aaron DiAntonio, asst. prof. of molecular biology and pharmacology. Room 426 McDonnell Medical Sciences Bldg. 747-4233.

2:30 p.m. Mechanical engineering seminar. "Application of Vorticity Confinement to the Predication of Flow Over Complex Bodies." John Steinhoff, U. of Tenn. Space Inst. Room 217 Cupples II Hall. 935-6047.

4 p.m. Neuroscience seminar. "Regulation of AMPA Receptor Function During Synaptic Plasticity." Richard Huganir, Howard Hughes Inst., Johns Hopkins U. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

Saturday, Oct. 20

10 a.m. Science Saturdays Lecture Series. "The Big Bang, the Cosmic Microwave Background, and the Shape of the Universe." Claude Bernard, prof. of physics. Room 201 Crow Hall. 935-6759.

Monday, Oct. 22

10 a.m. Infectious diseases div. seminar. "A Role for the Innate Immune System in the Pathogenesis of *Hepatitis B* Virus-mediated Liver Disease." Jody L. Baron, dept. of medicine, infectious diseases div., immunology and microbiology dept., U. of Calif., San Francisco. Room 775 McDonnell Medical Sciences Bldg. 362-1514.

11 a.m. Biology seminar. "Towards Global Food Security: Approaches and Strategies." Gurdev S. Khush, principal plant breeder, International Rice Research Inst., Philippines. Room 322 Rebstock Hall. 935-6850.

Noon-1:30 p.m. International Debate Series. "Should the United States Ratify the International Criminal Courts Treaty?" Michael P. Scharf, Center for International Law and Policy, New England School of Law; and Nicholas Rostow, Center for Naval Warfare Studies, U.S. Naval War College, Newport, R.I. Sponsored by the Inst. for Global Legal Studies. Room 401

Anheuser-Busch Hall. 935-6161.

Noon. Lung biology conference. "The Role of IL-12 p80 in Mediating Airway Inflammation." Michael J. Walter, asst. prof. of medicine. Room 801 Clinical Sciences Research Bldg. 362-8983.

Noon. Molecular biology and pharmacology research seminar. "Mechanisms of Neuronal Migration in Early Cortical Development." Alan L. Pearlman, prof. of cell biology and physiology and of neurology and neurological surgery. Room 3907 South Bldg. 362-2725.

Noon. Neurology and neurological surgery research seminar. David H. Gutmann, assoc. prof. of genetics, of neurology and neurological surgery, and of pediatrics. Schwarz Aud., first floor, Maternity Bldg. 362-7316.

Noon-1 p.m. Work, Families and Public Policy Brown Bag Seminar Series. "Collective Labor Supply and Children." Pierre-André Chiappori, U. of Chicago. Room 300 Eliot Hall. 935-4918.

4 p.m. Biology seminar. "The Self-incompatibility Locus of *Petunia inflata*: A Complex Locus Controlling Self and Non-self Recognition Between Pollen and Pistil." Teh-hui Kao, prof. of biochemistry and molecular biology, Penn State U. Room 322 Rebstock Hall. 935-6850.

4 p.m. Chemistry seminar. "Cyanogels: Materials Science Meets Coordination Chemistry." Andrew B. Bocarsly, chemistry dept., Princeton U. Room 311 McMillen Lab (coffee 3:40 p.m.). 935-6530.

4 p.m. Immunology Research Seminar Series. "Cytotoxic T Lymphocytes and Vaccine Protection of Monkeys Against AIDS." Norman Letvin, Harvard Medical School and New England Primate Research Center. Eric P. Newman Education Center. 362-2763.

Tuesday, Oct. 23

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "RNA Virus Evolution: From Dynamics to Drift." Simon Wain-Hobson, prof. of molecular retrovirology, Pasteur Inst., Paris. Cori Aud., 4565 McKinley Ave. 362-2755.

Wednesday, Oct. 24

8 a.m. Obstetrics and Gynecology Grand Rounds. "The Surgical Management of Stress Urinary Incontinence: Which approach and When." Craig V. Comiter, asst. prof. of clinical urology, U. of Ariz., Tucson. Schwarz Aud., first floor, Maternity Bldg. 362-1016.

4:15 Biochemistry and molecular biophysics seminar. "What Can the Jerker Deafness Mutation Tell Us About the Espin Actin-bundling Proteins?" James R. Bartles, assoc. prof. of cell and molecular biology, Northwestern U. Medical School, Chicago. Cori Aud., 4565 McKinley Ave. 362-0261.

5 p.m. Medical ethics lecture. Daniel Bisno Memorial Ethics Lecture. "Stem Cells, Human Clones and the Latest Crisis in Biomedical Ethics." Everett I. Mendelsohn, prof. of the history of science, Harvard U. Sponsored by Ophthalmology and visual sciences. Seminar Room B, Eric P. Newman Education Center. 362-5722.

6 p.m. Historia Medica Lecture Series on the History of Medicine. Estelle Brodman Lecture. "Human Experimentation in Twentieth Century American Medicine." Jonathon Erlen, assoc. prof. of history of medicine, U. of Pittsburgh. Becker Medical Library. 362-4235.

Thursday, Oct. 25

Noon-1 p.m. Genetics seminar. "Defining the Hemangioblast: A Common Precursor of Hematopoietic and Endothelial Cells." Kyunghee Choi, asst. prof. of pathology and immunology. Room 823 McDonnell Medical Sciences Bldg. 362-2062.

4 p.m. Chemistry seminar. "Polymerization of Olefins Catalyzed by Late Transition Metal Complexes." Maurice Brookhart, prof. of chemistry, U. of N.C., Chapel Hill. Room 458 Louderman Hall. 935-6530.

4:15 p.m. Earth and planetary sciences colloquium. "Seismology as a Forensic Science: Some Recent Case Studies." Keith Koper, asst. prof. of earth and atmospheric sciences, Saint Louis U. Room 361 McDonnell Hall. 935-5610.

4:30 p.m. Mathematics colloquium. "Analytic Functions Mapping the Disk to the Disk: What They Are, What They're Good For, and How They Generalize." Joe Ball, Va. Polytechnic Inst., Blacksburg. Room 199 Cupples I Hall (tea 4 p.m., Room 200). 935-6760.

7:30 p.m. School of Art Visiting Artist Lecture Series. Laylah Ali, asst. prof. of art, Williams College, Williamstown, Mass. Co-sponsored by the Forum for Contemporary Art and the Dept. of Printmaking/Drawing. Steinberg Hall Aud. 935-6500.

Renowned flutist Anton to present recital of Austrian music

By LIAM OTTEN

The Department of Music in Arts & Sciences will present a recital by Austrian flutist Ulrike Anton at 3 p.m. Oct. 28 in Graham Chapel. Anton will be accompanied by a fellow Austrian, the pianist Leonora Suppan-Gehrich.

The recital, consisting entirely of music by Austrian composers, is free and open to the public and is co-sponsored by The Flute Society of St. Louis and The Austrian Society of St. Louis.

The program includes "Pieces for Musical Clock" by Franz Joseph Haydn; "Sonata for Flute and Piano, 3rd Movement" by Cesar Bresgen; "Introduction, Theme and Variations (on 'Trockne Blumen' from 'Die schoene Muellerin') by Franz Schubert; "Fantaisie Pastorale Hongroise, op. 26" by Albert Franz Doppler; and several works from Grete von Zieritz's "Pictures From the Fair," including "Snake Charming," "Vagabond Child"

Recital

Who: Ulrike Anton, flute; Leonora Suppan-Gehrich, piano

What: "A Recital of Austrian Music for Flute"

Where: Graham Chapel

When: 3 p.m. Oct. 28

Program: Music of Franz Joseph Haydn, Franz Schubert, Cesar Bresgen, Albert Franz Doppler and Grete von Zieritz

Cost: Free

Sponsor: Department of Music in Arts & Sciences; The Flute Society of St. Louis; and The Austrian Society of St. Louis

and "Gypsy Girl."

Anton was born in Graz, Austria, and received her musical education in Austria, Paris and England, studying with Jean Loup Gregoire, Raymond Guiot, Alain Marion and Peter Lloyd. She has performed throughout Europe and the United States.

In 1994, she won first prize at the Concours Musical Regional Ile-de-France for flute in Paris (1994) and in 1996 won the BBC Radio 2 Young Musician Competition.

In 1999, she gave a live recital on radio station WFMT in Chicago as winner of the Dame Myra Hess Memorial Concert Series in 1999. In November, she will perform a recital at the American Musicological Society National Meeting in Atlanta.

Suppan-Gehrich has performed throughout Europe and the United States. In 1981 and 1982, she won first prize in the International Recording Competition of the Piano Guild. In 1987, she received an honorary doctorate from Quincy (Ill.) University — where she now teaches — and in 1988, she received the Arts Award of the city of Quincy.

For more information, call 935-4841.

Friday, Oct. 26

11 a.m. Mathematics analysis seminar. "Conservative Linear Systems, Lax-Phillips Scattering and Operator Model Theory: A Cuntz Algebra Multidimensional Setting." Joe Ball, Va. Polytechnic Inst., Blacksburg. Room 111 Cupples I Hall. 935-6760.

Noon. Cell biology and physiology seminar. "The Structural Basis of Cancer Cell Invasiveness." John E. Heuser, prof. of cell biology and physiology. Room 426 McDonnell Medical Science Bldg. 747-4233.

4 p.m. Anatomy and neurobiology seminar. Michael L. Nonet, asst. prof. of anatomy and neurobiology. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

4 p.m. Chemistry seminar. "Carbon-hydrogen and Carbon-carbon Bond Activation Using Late Transition Metal Complexes." Maurice Brookhart, prof. of chemistry, U. of N.C., Chapel Hill. Room 311 McMillen Lab (coffee 3:40 p.m.). 935-6530.

Saturday, Oct. 27

10 a.m. Science Saturdays Lecture Series. "The Higgs Particle." Carl Bender, prof. of physics. Room 201 Crow Hall. 935-6759.

Monday, Oct. 29

9 a.m. Postdoctoral candidate seminar. "Pathogenesis of West Nile Virus Encephalitis in the Adult Murine Model." Bimmi Shresta, graduate student. Co-sponsored by Michael Diamond, medicine, molecular microbiology, pathology and immunology depts. Room 775 McDonnell Medical Sciences Bldg. 362-2842.

10 a.m. Center for Mental Health Services Research Seminar Series. "Finding and Recruiting African-American Women Caregivers of Rural Elders." Letha Chadha, assoc. prof. of psychiatry. Room 38 Goldfarb Hall. 935-5687.

Noon. Lung biology conference. Yong Zhang, research assoc., pulmonary and critical care medicine div. Room 801 Clinical Sciences Research Bldg. 362-8983.

Noon. Molecular biology and pharmacology research seminar. "Hedgehog Signaling in Development and Disease." Phillip Beachy, prof. of molecular biology and genetics, Johns Hopkins School of Medicine, Baltimore. Room 3907 South Bldg. 362-2725.

Noon. Neurology and neurological surgery research seminar. "Role of LRP in APP Trafficking and Alzheimer's Disease." Gyojin Bu, asst. prof. of cell biology and physiology, and of pediatrics. Schwarz Aud., first floor, Maternity Bldg. 362-7316.

4 p.m. Chemistry seminar. Jerry L. Attwood, prof. of chemistry, U. of Mo., Columbia. Room 3907 South Bldg. 935-6530.

4 p.m. Condensed matter/materials and biological physics seminar. "Modelling Protein Interactions." David S. Sept, asst. prof. of biomedical engineering. Room 241 Compton Hall (coffee 3:45 p.m.). 935-6276.

4 p.m. Immunology Research Seminar Series. "Helicobacter Pathogenesis: The Role of the Immune Response." Robin Lorenz, asst. prof. of medicine and of pathology and immunology. Eric P. Newman Education Center. 362-2763.

7 p.m. Architecture Monday Night Lecture Series. "Stalking Detroit." Gia Daskalakis, architect and author. Steinberg Hall Aud. (reception 6:30 p.m., Givens Hall). 935-6293.

Tuesday, Oct. 30

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Evolution of RNA Genomes: The Search for Perfection." Henry V. Huang, assoc. prof. of molecular microbiology. Cori Aud., 4565 McKinley Ave. 362-3692.

12:05-12:55 p.m. Physical therapy research seminar. "Control of Adiposity Throughout College Years: Changes Over Two Challenging Years." Susan Racette, research instr. in medicine; Gabrielle Highstein, instr. in medicine; and Susan S. Deusinger, asst. prof. in physical therapy program and assoc. prof. of neurology and neurological surgery. Rooms B108 and B109, 4444 Forest Park Blvd. 286-1404.

4 p.m. Anesthesiology research seminar. "Calcium Receptor." Xiaoming Xia, anesthesiology dept. Room 5550 Clinical Sciences Research Bldg. 362-8560.

Wednesday, Oct. 31

8 a.m. Obstetrics and Gynecology Grand Rounds. "Fetal Fibrinectin and Pre-term Labor." Ann M. Gronowski, asst. prof. of pathology and immunology, laboratory medicine div. Schwarz Aud., first floor, Maternity Bldg. 362-1016.

11 a.m. Assembly Series. KRS-One, hip-hop artist, to deliver the Black Arts & Sciences Festival keynote address. Graham Chapel. 935-5285.

Noon. Orthopaedic research seminar. "Microfibrils in Tissue Morphogenesis and Function." Francesco Ramirez, Mt. Sinai Medical Center, N.Y. J. Albert Key Library, Room 11300 West Pavilion, Barnes-Jewish Hosp. 454-7800.

Music

Saturday, Oct. 20

8 p.m. Music dept. concert. The Eliot Trio. Seth Carlin, pianist; David Halen, violinist; and John Sant' Ambrogio, cellist. Works of Mozart, Fauré and Mendelssohn. Cost: \$12, \$6 for senior citizens, WU faculty, staff and students. Steinberg Hall Aud. 935-4841.

Sunday, Oct. 21

3 p.m. Music dept. faculty recital. "The Operatic Aria: Monteverdi-Tchaikovsky." M. Noel Prince, mezzo soprano; Alla Voskoboinikova, piano; with Elizabeth Macdonald, viola da gamba and Hugh Macdonald, harpsichord. Graham Chapel. 935-4841.

Thursday, Oct. 25

8-10 p.m. Holmes Jazz Series. The St. Louis Ragtimers Trio, featuring Trebor Tichenor, pianist. Holmes Lounge, Ridgley Hall. 935-4841.

Sunday, Oct. 28

3 p.m. Music Dept. concert. "A Recital of Austrian Music for Flute." Ulrike Anton, flutist, and Leonora Suppan-Gehrich, pianist. Sponsored by the Flute Society of St. Louis and the Austrian Society of St. Louis. Graham Chapel. 935-4841.

Wednesday, Oct. 31

8 p.m. Acoustic City Concert Series. Melisa Ferrick, Boston folk rocker. Cost: \$12 in advance, \$15 at the door. The Gargoyle. 935-7576.

On Stage

Friday, Oct. 19

8 p.m. Performing Arts Dept. Series. "How to Succeed in Business Without Really Trying." Annamaria Pileggi, dir. (Also Oct. 20, 26, and 27 same time; and Oct. 21 and 28, 2 p.m.) Cost: \$12; \$8 senior citizens, WU faculty, staff and students. Edison Theatre. 935-6543.

Sports

Friday, Oct. 19

4 p.m. Volleyball vs. Simpson College, Indianola, Iowa. WU Midwest Invitational. Field House. 935-5220.

8:30 p.m. Volleyball vs. Central College, Pella, Iowa. WU Midwest Invitational. Field House. 935-5220.

Saturday, Oct. 20

10 a.m. Volleyball vs. Thomas More College, Crestview Hills, Ky. WU Midwest Invitational. Field House. 935-5220.

3 p.m. Volleyball vs. College of Mt. St. Joseph, Cincinnati, Ohio. WU Midwest Invitational. Field House. 935-5220.

1:30 p.m. Football vs. U. of Rochester, N.Y. Homecoming. Francis Field. 935-5220.

Wednesday, Oct. 24

5:30 p.m. Men's soccer vs. Illinois Wesleyan U. Francis Field. 935-5220.

7:30 p.m. Women's soccer vs. Illinois Wesleyan U. Francis Field. 935-5220.

Saturday, Oct. 27

1 p.m. Men's and women's swimming/diving vs. Ill. Wesleyan U., Bloomington. Millstone Pool. 935-5220.

1 p.m. Football vs. U. of Chicago. Founder's Trophy Game. Francis Field. 935-5220.

Translator Theoharis to read for Writing Program

By LIAM OTTEN

Theoharis C. Theoharis, translator from the Greek of "Before Time Could Change Them: The Complete Poems of Constantine P. Cavafy" (2001), will read for The Writing Program Reading Series at 8 p.m. Oct. 25.

The reading is free and open to the public and takes place in Hurst Lounge in Duncker Hall Room 201. A book signing will follow the reading, and copies of Theoharis' works will be available for purchase.

Widely considered among the greatest of modern Greek poets, Cavafy (1863-1933) was born to Greek parents in Alexandria, Egypt, where he worked much of his life as a clerk. His powerfully elegiac poems, which deal with themes of spirituality, loss and

Reading

Who: Novelist Theoharis C. Theoharis

Where: Hurst Lounge, Duncker Hall Room 201

When: 8 p.m. Oct. 25

Tickets: Free and open to the public

Sponsor: The Writing Program Reading Series

For more information, call 935-7130.

love, were initially circulated among friends and family on printed broadsheets. His first collection was not published until he was 41.

Though a previous "complete" works (with a forward by W.H. Auden) was published in 1961,

"Before Time Could Change Them" is the first new translation of Cavafy's work in 25 years and the first to organize Cavafy's work thematically rather than chronologically. The new volume also includes a forward by Gore Vidal.

"In addition to restoring Cavafy's chosen order for the poems, Theoharis gives us a dozen previously untranslated poems, making this translation not only subtly nuanced, but comprehensive," noted Carl Phillips, professor of English in Arts & Sciences and director of The Writing Program.

Theoharis is the author of two books of literary criticism, "Ibsen's Drama" and "Joyce's Ulysses" and editor of The Boston Book Review. He has taught comparative literature at Harvard University since 1985.

For more information, call 935-7130.

Obituary

Howard B. Kelsey, professor emeritus, 90

By LIAM OTTEN

Howard B. Kelsey, professor emeritus in the Department of Music in Arts & Sciences, died Tuesday, Sept. 18, at Des Peres Hospital in St. Louis. He was 90.

Kelsey served as the University organist for more than 30 years. He arrived in 1945, accepting the position only after persuading Avis H. Blewett to underwrite the cost of building a pipe organ in Graham Chapel to replace an ailing electric organ.

Upon her death, in 1946, Blewett made an additional bequest that helped establish the Department of Music.

According to Robert Snarrenberg, Ph.D., music department chair, "Kelsey established one of the nation's first programs in historical performance practice as well as a nationally acclaimed program in organ. He supervised two-dozen Ph.D.s, over a dozen Fulbright scholars and scores of master's degree students. He helped many of his students secure positions at major churches and universities around the country."

Mark Allendorf (A.B. 1980) met Kelsey as a high school senior visiting campus.

"Prof. Kelsey opened an entire world of music to me," Allendorf said. "He was the mentor that gave me confidence that I could succeed in this new world far from home. I will always remember him with great fondness and gratitude."

Kelsey grew up in Brighton, Mo. He earned a bachelor's degree in music from Illinois Wesleyan University in 1933 and a master's degree in sacred music from Union Theological Seminary in New York.

In 1935, he began his teaching career at the Eden Theological Seminary in Webster Groves, also serving as organist and choirmaster at First Congregational Church

of St. Louis.

There he met Berenice Strobeck, a member of the choir. They married in 1937.

Over the years, Kelsey served as organist at several local houses of worship, including Temple B'nai El in Frontenac; Temple Israel in Creve Coeur; Second Baptist Church of St. Louis and First Presbyterian Church of University City.

Kelsey was named professor emeritus in 1977 and retired to Fort Lauderdale, Fla., but returned to St. Louis after the death his wife in 1997.

A memorial service will be held at 5:30 p.m. Oct. 21 at Christ Church Cathedral, 1210 Locust St.

Memorial contributions may be made to Union Theological Seminary, 304 Broadway at Reinhold Niebuhr Place, New York, NY 10027; and to Illinois Wesleyan University, P.O. Box 2900, Bloomington, IL 61702.

Kelsey is survived by a daughter, Caroline Kelsey of St. Louis County; two sons, H. Boulter Kelsey Jr. of University City and Peter Kelsey of Cambridge, Mass.; and four grandchildren.

Hamburger memorial service Nov. 5

By TONY FITZPATRICK

A memorial service will be held for famed biologist Viktor Hamburger, Ph.D., from 10-11 a.m. Nov. 5 in Graham Chapel. A reception will follow in the Women's Building Formal Lounge.

Hamburger, the Edward Mallinckrodt Distinguished Professor Emeritus in Arts & Sciences, died Tuesday, June 12, 2001, in St. Louis after a short illness. He was 100, just four weeks shy of 101.

Hamburger is considered a giant in neurobiology, embryology and the study of programmed cell death. He has often been referred to as "the father of neuroembryology."

Hamburger joined the University faculty in 1935 as assistant professor of zoology. Within six years, he had advanced to full professor and department chair. He continued to serve as chair until 1966 and was appointed the Edward Mallinckrodt Distinguished University Professor of Biology in 1968. He assumed emeritus status in 1969 but maintained

an active, well-funded research program until he was well into his 80s.

Hamburger received many honors and accolades in his research career, including the National Medal of Science, the Horwitz Prize, the Harrison Award, the Gerard Prize and, most recently, the inaugural Lifetime Achievement Award from the Society for Developmental Biology, conferred June 7, 2000. Hamburger was a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the Society for Developmental Biology and the International Society for Developmental Biology.

In October 2000, the biology department honored Hamburger with a centenary symposium. Researchers nationwide gathered to celebrate the man and his career.

For more information on the memorial service, contact Garland Allen, Ph.D., professor of biology in Arts & Sciences, at 935-6808, or David Kirk, Ph.D., professor of biology, at 935-6812.

Parents' weekend. Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

And more...

Friday, Oct. 19

7 p.m. American Printing History Assoc. conference. Free lecture/slide show. "Cobden-Sanderson and America." Marianne Tidcombe, British bookbinding historian and author. (Conference continues Oct. 20 and 21, fee required for those dates.) Brown Hall Lounge. To register, call 935-5487.

Sunday, Oct. 21

Noon-3 p.m. Newman brunch. Sponsored by Catholic Student center, Frontenac Hilton. For tickets, call 935-9191 (x201).

Wednesday, Oct. 24

8 a.m. STD/HIV course lecture and clinical practicum. Sponsored by St. Louis STD/HIV Prevention Training Center. Cost: \$40. Room 775 McDonnell Medical Science Bldg. Registration required. 747-0294.

Saturday, Oct. 27

7:30 a.m. Continuing Medical Education symposium. "Psychiatry Update: Care and Treatment of Schizophrenia." Cost: \$35. Eric P. Newman Education Center. To register, call 362-2418.

Sports

2 second-half goals carry men's soccer

The Bears improved to 6-2-2 on the season with a 2-0 shutout over local foe Webster University Oct. 10 at Francis Field. Junior Mark Gister tallied his fourth goal of the season in the 61st minute after receiving a through ball from sophomore James Ward. Sophomore Scott Siebers sealed the victory in the 71st minute by heading home his team-leading fifth goal of the season on a cross from senior Jeff Thompson. Junior goalkeeper Giles Bissonnette recorded his sixth victory of the season and lowered his goals-against average to 0.59.

Women's soccer drops pair on road

The Bears played well in a pair of tough games on the road, but came out on the short end of both. National power Macalester College took a 3-1 victory Oct. 13 in St. Paul, Minn., coming back after an early goal by the Bears' Tana Mitby. WU then dropped a 2-0 decision Oct. 14 to the College of St. Benedict. The Bears are now 5-5-3 overall.

Football posts win; Rochester up next

The Bears forced five turnovers and moved to 2-0 in the University Athletic Association (UAA) with a 17-7 win Oct. 13 at No. 21 Carnegie Mellon University (CMU). The win

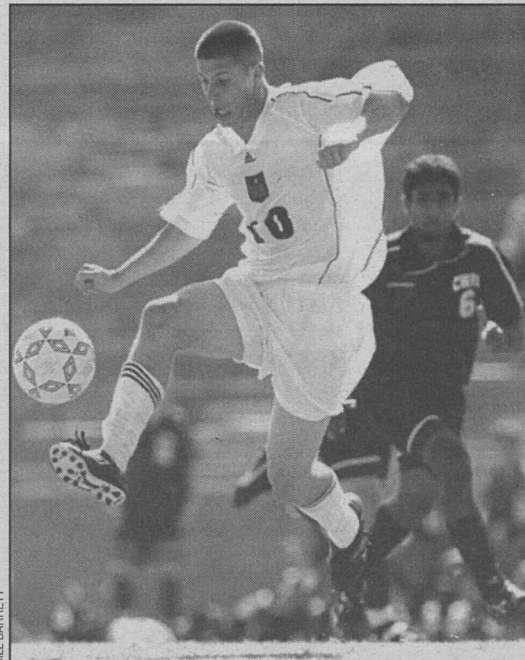
snapped a two-game losing streak for the Bears and marked the first time they have won three straight against CMU. Freshman Jeff Buening posted career highs with nine catches and 138 yards receiving. The Bears, 5-2 overall, will continue their quest for a fifth UAA title and a berth in the NCAA playoffs when they host the University of Rochester in the 2001 homecoming game Oct. 20 at 12:30 p.m.

Volleyball takes 4th tourney title this year

The third-ranked volleyball team captured four wins to take its fourth tournament championship of the season, the Illinois Wesleyan University Titan Classic Oct. 12-13 in Bloomington, Ill. Falling to the Bears were Aurora University; three-time defending national champion and sixth-ranked Central College of Iowa; University of Wisconsin-River Falls; and Illinois Wesleyan. Sophomore Katie Quinn and junior Rebecca Rotello were both named to the all-tournament team.

Cross country nabs 2nd, 3rd at Millikin

The men's and women's cross country teams competed at the Millikin Cross Country Classic at the Hickory Point Golf Course in Forsyth, Ill., Oct. 12. The women's team took second place out of nine teams with 82 points, with junior Brooke Lane finishing fourth with a time of 20:03.23. The men placed third out of seven teams with 81 points. Senior Dan House finished 14th at 27:02.61.



Senior midfielder Casey Lien has helped the men's soccer team to a 6-2-2 record.

Newman brunch features auctions

By SUSAN KILLENBERG MCGINN

The 48th annual brunch to benefit the Newman Catholic Student Center will be held at noon Oct. 21 in the ballroom of the Frontenac Hilton Hotel, 1335 S. Lindbergh Blvd.

Silent and oral auctions will be held during the brunch. Among the items available are four tickets to a St. Louis Cardinals' baseball game with a VIP field visit, and the opportunity to be a veterinarian for a day.

The Rev. Gary G. Braun is director of the Newman Center, which provides religious programs, leadership training, counseling services and social activities for University students of all denominations. The center also offers instruction in Catholic theology and philosophy. Monsignor Gerard N. Glynn, who opened the center in 1950 and served as its director for more than 40 years, is director emeritus.

The center includes a chapel, library, classroom, recreation rooms, study space and offices. Braun also is director of the

Catholic Campus Ministries for the Archdiocese of St. Louis.

Students associated with the center aid the elderly and poor and needy children in St. Louis through many social service activities, including STONE Soup, a University student-run outreach project. STONE Soup provides food for as many as 80 homeless people each Sunday.

Other activities include a retreat, where students help the inner-city poor, Effort for AIDS and pro-life work, and prison ministry. During the University's winter break, a group of these students also takes service trips abroad, helping the poor in impoverished countries.

Lynn E. Bird is chair of the brunch committee. Individual tickets are \$55. A sponsor donation of \$250 includes two tickets; a Newman Knight/Newman Lady donation of \$500 includes four tickets; a Newman Crusader donation of \$1,000 includes eight tickets.

For more information or reservations, call the Newman Center at 935-9191, ex. 201.

Wednesday, Oct. 31

7 p.m. Men's soccer vs. Rockford College, Ill. Francis Field. 935-5220.

Worship

Saturday, Oct. 20

4:30 p.m. Catholic Mass. Parents' weekend. Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

Sunday, Oct. 21

11 a.m. and 9 p.m. Catholic Mass.

Founders Day

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advisory board for McKinsey & Company's Institute for Management of Nonprofits. For two years he was a senior adviser and vice chairman of the International Council of J.P. Morgan & Co. Inc.

He is a frequent contributor to CBS Evening News and has served as a visiting professor at Stanford University, University of Notre Dame and University of Maryland.

In addition to his best-selling memoir, "Time Present, Time Past," published in 1996, Bradley is the author of several books, including the highly acclaimed "Values of the Game." His most recent book is "The Journey From Here."

In addition to Bradley's speech, six exceptional alumni will receive Distinguished Alumni Awards. The awards are bestowed upon alumni for demonstrated outstanding professional achievement, public service, exceptional service to the University, or all three.

This year's recipients are Santanu Das (Ph.D. 1973), John M. Eisenberg (M.D. 1972), Dexter M. Fedor (B.S.B.A., B.F.A. 1979), Nancy Spirtas Kranzberg (B.A. 1966), Robert J. Messey (B.S.B.A. 1968) and William J. Shaw (M.B.A. 1972).

Santanu Das

Santanu Das is president, chief executive officer and chairman of TranSwitch Corporation, a company he founded in 1988. TranSwitch designs, manufactures and markets high-speed VLSI (microchip) solutions for advanced broadband telecommunications and data communications applications. His leadership in this important field is demonstrated by the large number of patents he holds.

In the more than 25 years Das has devoted to his career in the telecommunications industry and in computer development, he has held many key positions in leading-edge companies. He was president of Spectrum Digital Corporation and was director of the Applied Technology Division of ITT's Advanced Technology Center.

At ITT, Das held the positions of senior scientist, director of system design and technology, and division director. During his tenure with the Indian Statistical Institute — Jadavpur University Computer Project Team, he helped develop one of the first computers in India.

Das graduated from Jadavpur University in Calcutta, India, with bachelor's and master's degrees in electronics and

telecommunications engineering. He earned a doctorate in electrical engineering from Washington University.

Das contributes in many ways to the University: He is a member of the Board of Trustees, a Life Patron of the Eliot Society and a member of the New York Regional Cabinet. Last year, Das received the Alumni Achievement Award from the School of Engineering and Applied Science. In 2000, he and his family endowed the first Das Family Distinguished Professorship in Electrical Engineering.

His philanthropy extends far beyond the University. As a strong supporter of educational opportunities, Das supports scholarships in India and the United States, as well as an orphanage and a water-filter-development system, both in India.

John M. Eisenberg

John Eisenberg is a physician, researcher, administrator and educator whose expertise has contributed significantly to the advancement of American health care and public policy. Since 1997, Eisenberg has headed the Agency for Healthcare Research and Quality, housed in the U.S. Department of Health and Human Services (DHHS). This agency conducts and sponsors research to enhance the quality, appropriateness and effectiveness of health-care services, and to improve cost and access to care for all.

Before this federal appointment, he held prominent positions in academic and clinical medicine. He was chairman of the Department of Medicine and physician-in-chief at Georgetown University, where he also holds a faculty appointment. Before joining Georgetown, Eisenberg served as founding chief of the Division of General Internal Medicine at the University of Pennsylvania.

Among his most notable accomplishments are: founding commissioner and past chair of the Congressional Physician Payment Review Commission; first physician elected president of the Association for Health Services Research; past president of the Society for General Internal Medicine; vice president of the Society for Medical Decision-Making; and member of the Institute of Medicine of the National Academy of Sciences. In addition, he has served on the Board of Physicians and is currently a Master of the College.

A prolific writer, Eisenberg has been published widely in medical and academic journals and has written or co-written a number of books in his field.

After graduating from Princeton, Eisenberg earned a medical degree from Washington University in 1972. He also holds a master of business administration degree from the Wharton School of the University of Pennsylvania.

Dexter M. Fedor

In 1998, Dexter Fedor joined the Disney corporate family as vice president of global brand development for its Consumer Products Division, which includes all the Disney stores worldwide, as well as Disney interactive, publishing and product licensing. Fourteen months later, he was promoted to senior vice president, strategic marketing, for the Walt Disney Motion Pictures Group.

Before joining Disney, Fedor enjoyed a distinguished career in the advertising field. The agencies with which he was associated are among the most prominent in the country: Hal Riney and Partners, where he headed the Sprint PSC account; Ketchum (now Chiat/Day) where he handled the Bank of America and Pacific Bell accounts; Foot, Cone and Belding, where he introduced the first Levi's 501 "Blues" concept and the award-winning — and now famous — "California Raisins" commercial; and Leo Burnett, where he worked on the Revlon, Procter & Gamble, and Philip Morris accounts.

He won three Clio awards (the advertising equivalent of the Oscars) for the claymation raisins dancing to "I Heard It Through the Grapevine," in addition to the 200-plus other awards to his credit.

Lending his energy and creative talent to the University, Fedor serves as a member of its national council.

In addition, he returns to campus on occasion to conduct seminars for both business and art students. With degrees from the University in both business and art, Fedor is well-positioned to advise students on preparing for a career in the global marketplace, stressing the need for developing both business and creative skills.

Nancy Spirtas Kranzberg

One of St. Louis' most active community volunteers and philanthropists, Nancy Kranzberg has been a force in cultivating and preserving many local organizations. With a strong interest in artistic and cultural institutions, Kranzberg has donated her time and talent to a variety of causes, including: Laumeier Sculpture Park, Places for People, AIDS Foundation of St. Louis, the Center of Contemporary Arts, Dance St. Louis, Forest Park Forever, United Way of Greater St. Louis, the Saint Louis Art Museum, Missouri Mansion Preservation, Jazz at the Bistro, Opera Theatre of St. Louis,

Mid-America Arts Alliance and the Missouri Arts Council.

Kranzberg is past president of the New Music Circle and sits on a number of boards for local arts organizations. She currently serves in leadership positions for the Center for the Humanities at the University of Missouri-St. Louis, Craft Alliance and the Sheldon Art Galleries.

Kranzberg also serves on the advisory boards for radio station KDHX — where she hosts a weekly radio show on arts in the community — and Art St. Louis. For her tireless efforts, Kranzberg has received numerous community distinctions, among them the 2001 Women of Achievement Award from the St. Louis Suburban Journals and the American Jewish Committee Community Service Award in 2000.

Kranzberg's vision, energy and generosity have also been directed to her alma mater, where she earned a bachelor's degree in education. It was her inspiration and support that helped the University create the Nancy Spirtas Kranzberg Illustrated Book Studio.

Very involved in the University Libraries, Kranzberg was the founding chair of its Eliot Society membership committee and has been on its national council since 1995. Recently she has taken over the reins for the Campaign Cabinet for the Libraries. In 1996 she was awarded the Libraries' first Dean's Medal.

Robert J. Messey

Robert Messey's business leadership has contributed significantly to the vitality of St. Louis. He is the senior vice president and chief financial officer of Arch Coal Inc., the nation's second-largest coal producer. Arch Coal produces clean-burning, low-sulfur coal and provides the fuel for six percent of the nation's electricity.

Before joining Arch Coal, Messey was senior vice president and chief financial officer for Sverdrup Corp., a major architecture, engineering and construction firm. Messey also served on Sverdrup's board of directors and its executive committee. After Sverdrup's merger with Jacobs Engineering in 1998, he was named vice president of financial services for Jacobs.

Messey began his career at Ernst & Young and stayed there for 24 years. He was named a partner in 1981. His professional associations include the American Institute of Public Accountants and the Missouri Society of Certified Public Accountants.

Messey graduated from the University with a bachelor's degree in business administration and has been an ardent supporter, serving in a number of ways. He is a former chair of the Alumni Board of Governors, and was a member of the University's Board

of Trustees and a past president of the Business School Alumni Association. He and his wife, Pixie (B.A. 1968), have co-chaired two class reunions, and he has assisted the University in its annual fund-raising efforts.

During his years at the University, Messey was a member of the Thurtene junior men's honorary and president of Phi Delta Theta fraternity. He also played on the football and basketball teams.

His leadership roles in St. Louis have also helped a number of civic and charitable organizations, including the St. Louis Repertory Theatre, for which he has served as its president. He has also been active in Boy Scouts of America, the Arts & Education Council and the Episcopal Diocese of Missouri.

William J. Shaw

As president and chief operating officer of Marriott International Inc., William Shaw oversees the company's many divisions, with a total of 2,400 operating units throughout the world, system-wide sales of \$19.8 billion for fiscal year 2000 and approximately 154,000 employees.

Marriott International is a worldwide hospitality company whose major thrust is the hotels operated and franchised under the Marriott, J.W. Marriott, Ritz-Carlton, Renaissance, Courtyard, Fairfield Inn, Residence Inn, TownePlace Suites, SpringHill Suites and Ramada International brand names; vacation ownership resorts; corporate housing; senior living communities; and food-service distribution.

Except for a brief stint as an auditor for Arthur Andersen and Co. after graduation from the University, Shaw has been with Marriott. Among the numerous top posts he has held within the firm include: corporate controller, corporate vice president, senior vice president for finance, treasurer, and chief financial officer. He was elected executive vice president in 1988 and named president of Marriott's Service Group in 1992. Five years later, he arrived at his current position.

He earned a bachelor's degree from the University of Notre Dame and followed that with a three-year term of service in the Army.

Shaw gives generously to the University, serving on the Washington, D.C., Regional Cabinet. In addition, he contributes to the Scholars in Business scholarship fund and works as a business placement volunteer. He received the Distinguished Alumni Award in 1996 from the Olin School of Business.

Editor's note: This story will conclude in the Oct. 26 issue of the Record with profiles of the recipients of the Robert S. Brookings and the Distinguished Faculty Awards.

Employment

Use the World Wide Web to obtain complete job descriptions. Go to <https://hr.wustl.edu/> (Hilltop) or <http://medicine.wustl.edu/wumshr> (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Research Technician 000256

Research Assistant 010023

Senior Medical Sciences Writer 010108

Senior Prospect Researcher 010236

Reference/Subject Librarian (Psychology) 010241

Reference/Subject Librarian (German) 010242

Catalog Librarian 010290

Custodian and Maintenance Assistant (part time) 010349

Reference/Subject Librarian 010387

Serials Librarian 010415

Regional Director of Development 020005

Coordinator, Professional and Graduate Program Preparation 020076

Administrative Assistant for Office of Dean 020078

Planned Giving Officer 020086

Application Processor (part time) 020089

Research Compliance Specialist 020090

Project Associate 020092

Music Library Assistant (Technical Services) 020094

Instructional Technology Specialist 020096

Federal Loan Coordinator 020100

Coordinator for Undergraduate Administrative and Technical Activities 020101

Mechanic (Bargaining Unit Employee) 020102

Research Assistant 020104

Manager, Sponsored Projects Accounting 020105

Deputized Police Officer 020111

Director of External Affairs 020117

Copy Editor and Proofreader (part time) 020119

Mail Services Carrier Operator 020121

Registrar 020122

Field Coordinator 020136

Medical Campus

This is a partial list of positions at the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Grant Assistant 020008

Garage Attendant (part time/weekends) 020200

Senior Analyst — Patient Accounts/Revenue 020455

Professional Rater II 020505

Professional Rater I 020666

Secretary III 020668

Neighbors

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determined that the below-ground option did not fit into its budget.

Richard A. Roloff, executive vice chancellor, presented a summary of building projects on campus. Roloff discussed the recent opening of the Small Group Housing buildings, the new Charles F. Knight Executive Education Center, the Snow Way Garage, the renovations of Bixby and Givens halls, and upcoming construction projects such as the Visual Arts and Design Center and the University Center.

Leah Merrifield, director of community relations, opened the meeting to questions from neighbors. George C. Burris, director of off-campus housing; Steven P. Hoffner, assistant vice chancellor for students and

director of operations; James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences; Roloff and Wrighton made up the panel of University administrators available to answer questions.

Neighbors expressed concern about the noise and aesthetic disturbance caused by the planned above-ground MetroLink trains in their neighborhood. They sought the University's help in their efforts to change Bi-State's plans back to the original proposal that included below-ground trains.

Wrighton stressed that the University had little control over the Bi-State plans, that the land originally offered to Bi-State is still available and that the University would also prefer below-ground trains. Wrighton also agreed to meet with a group of neighbors to further hear their engineering concerns.

Other questions from neighbors involved the plans for the University's property in the 6100 block of Lindell Boulevard. Land on the corner of Lindell and Skinker Boulevard will be landscaped and serve as green space for the University and the community.

Also discussed were the University's plans to continue renovating the off-campus residential properties.

In closing the more than hour-and-a-half meeting, Wrighton again expressed how important the neighborhood meetings were and the discussion that arose from them.

After the meeting ended, attendees took advantage of the opportunity to chat with Wrighton and other University administrators.

Mosaic Whispers, one of the University's a cappella groups, greeted attendees as they arrived.

Washington University's Policy on Sexual Harassment

The Washington University Record publishes this policy as a service to the University community.

I. Introduction and policy statement

Washington University is committed to having a positive learning and working environment for its students, faculty and staff and will not tolerate sexual harassment.

Sexual harassment is an attack on the dignity of individuals and the integrity of the University as an institution of learning. Academic freedom can exist only when every person is free to pursue ideas in a non-threatening, non-coercive atmosphere of mutual respect. Sexual harassment is reprehensible and threatening to the careers, educational experience and well-being of all members of our community.

Sexual harassment is a form of discrimination that violates University policy. It is also illegal under state and federal law.

This policy applies to all members of the Washington University community. It allocates responsibilities for helping to ensure that University policy is fairly applied, explains the process by which complaints of sexual harassment may be brought forward and provides sanctions for sexual harassment, which may range from reprimands to termination or dismissal, depending upon the severity of the offense. If you believe you have been sexually harassed, Sections IV and V describe options about what you can do and where you can get help. If you believe you have been falsely accused of sexual harassment, the procedures set out below are also available to you. Those charged with implementation of this policy will, whenever appropriate, encourage and assist those who believe they may have been sexually harassed to pursue the assorted informal means outlined in Section IV below for securing the cessation of unwelcome and offensive conduct.

II. What is sexual harassment?

For the purposes of this statement, Washington University has adapted the Equal Employment Opportunity Commission (EEOC) definition of sexual harassment for an academic community: Sexual harassment is defined as any unwelcome sexual advance, request for sexual favor or other unwelcome verbal or physical conduct of a sexual nature, whether committed on or off campus, when:

1. submission to such conduct is made, either explicitly or implicitly, a term or condition of an individual's employment or academic advancement;
2. submission to or rejection of such conduct by an individual is used as the basis or threatened to be used as the basis for employment or academic decisions or assessments affecting an individual; or
3. such conduct has the purpose or effect of unreasonably interfering with an individual's work or educational performance or creating an intimidating or hostile environment for work or learning. Such conduct will typically be directed against a particular individual or individuals and will either be abusive or severely humiliating or will persist despite the objection of the person targeted by the speech or conduct.

Sexual harassment includes but is not limited to situations where one person has authority over another. In such situations, sexual harassment is particularly serious because it may unfairly exploit the power inherent in a faculty member's or supervisor's position.

Sexual harassment can be verbal, visual, physical or communicated in writing or electronically. Some conduct obviously constitutes sexual harassment — such as a threat that a grade or promotion will depend on submission to sexual advance. But whether particular conduct constitutes sexual harassment will often depend upon the specific context of the situation, including the participants' reasonable understanding of the situation, their past dealings with each other, the nature of their professional relationship (e.g., supervisor-subordinate, colleague, etc.) and the specific setting. The inquiry can be particularly complex in an academic community, where the free and open exchange of ideas and viewpoints preserved by the concept of academic freedom may sometimes prove distasteful, disturbing or offensive to some.

Examples of conduct which may constitute sexual harassment include but are not limited to:

- requests for sexual favors
- hugging, rubbing, touching, patting, pinching or brushing another's body
- inappropriate whistling or staring
- veiled suggestions of sexual activities
- requests for private meetings outside of class or business hours for other than legitimate mentoring purposes
- use in the classroom of sexual jokes, stories or images in no way germane to the subject of the class
- remarks about a person's body or sexual relationships, activities or experience
- use of inappropriate body images to advertise events

Members of the University community can expect to be free from sexual harassment and thus all members of the University community should guard against it. The fact that someone did not intend to sexually harass an individual is generally not considered a sufficient defense to a complaint of sexual harassment, although the reasonableness or the accuser's perceptions may be considered. In most cases, it is the effect and characteristics of the behavior on the complainant and whether a reasonable person similarly situated would find the conduct offensive that determine whether the behavior constitutes sexual harassment.

III. Confidentiality

The University will strive to protect, to the greatest extent possible, the confidentiality of persons reporting harassment and of those accused of harassment. Because the University has an obligation to address sexual harassment, however, the University cannot guarantee complete confidentiality where it would conflict with the University's obligation to investigate meaningfully or, where warranted, take corrective action. Even when some disclosure of the University's information or sources is necessary, it will be limited to the extent possible. The University will, to the extent permitted by law, keep confidential all records of complaints, responses and investigations. The records maintained by the Sexual Harassment Response Coordinator shall be available only to the Coordinator and, to the extent necessary, to administrators and other supervisors charged with responding to allegations of harassment. Allegations of sexual harassment shall not be placed in student records or personnel files unless, after appropriate investigation, such allegations have been sustained. Records of allegations maintained by the Coordinator which do not lead to formal hearings or personnel actions will be discarded after five years unless there are additional, more recent complaints against the same person. Any records maintained by the Coordinator concerning an allegation about which an accused

person was not given reasonably timely notice and an opportunity to respond shall not be used to justify or enhance a sanction, other than an oral or written warning, imposed for a different instance of harassment.

If you want to discuss possible harassment in a more confidential setting or clarify your feelings about whether and how you wish to proceed, you may want to consult a social worker, therapist or member of the clergy, who is permitted, by law, to assure greater confidentiality. Clergy and counseling resources on campus are listed in **Bearings, Ternion and Safety and Security on the Hilltop Campus**. In addition, any member of the University community may contact the Student Counseling Services at 935-5980 for a confidential discussion and, if desired, referral to off-campus resources.

IV. Seeking advice; making a complaint

If you believe that you have been sexually harassed, you have a number of response options, both formal and informal. Some people may wish to pursue informal means instead of or before making a formal complaint; others will not. If an informal procedure is ineffective, the formal procedures will remain open to you. You should select the route you feel most appropriate for your circumstances. However you wish to proceed, you may consult at any time with the Hilltop or Medical Center Sexual Harassment Response Coordinator (listed in the Appendix), whose responsibilities include assisting students, faculty and staff with sexual harassment issues, be they general or specific, formal or informal. You may wish to work with the Coordinator to select an approach.

- A. Informal Procedures
- I. If you feel comfortable dealing with the situation without assistance, you can:
 - a. Clearly say "no" to the person whose behavior is unwelcome.
 - b. Communicate either orally or in writing with the person whose behavior is unwelcome. The most useful communication will have three parts:
 1. A factual description of the incident(s) including date, time, place and specific action.
 2. A description of the writer's feelings, including any consequences of the incident.
 3. A request that the conduct cease. Frequently, such a communication will cause the unwelcome behavior to stop, particularly where the person may not be aware that the conduct is unwelcome or offensive.
 - II. If you would like to proceed informally, but with the assistance of someone else, you may:
 - a. Ask the person's supervisor, e.g., department chair, dean, director, housing office representative, academic advisor or resident advisor, to speak to the person whose behavior was unwelcome. The purpose of such conversations is the cessation of unwelcome behavior.
 - b. Consult with the Coordinator or one of the Sexual Harassment Response Advisors listed in the Appendix and specifically charged with responding to sexual harassment inquiries and complaints. These individuals are thoroughly familiar with University policy on sexual harassment and are available to consult with victims of sexual harassment, those charged with sexual harassment, witnesses and supervisors of parties to a complaint. They can provide information about informal actions that might remedy the situation and discuss University policy on sexual harassment and procedures for resolving complaints.
 - c. Ask the Coordinator to mediate or arrange for mediation. Mediation is discussion and negotiation, with the help of a third party, designed to permit the parties to reach a mutually agreeable resolution of a dispute. If a person complaining of sexual harassment seeks mediation, the person accused of harassment agrees and the Coordinator concludes that the mediation would be consistent with the University's legal obligations in responding to and preventing sexual harassment, the Coordinator may mediate or arrange for mediation.
- B. Formal Procedures

Whether or not you have attempted to resolve a sexual harassment claim through informal means, you may initiate a formal sexual harassment grievance proceeding by filing a written complaint. This process may lead to a formal hearing at which evidence will be considered and witnesses heard. If this is the course you wish to take, the Coordinator can assist you in filing a complaint.

Complaints, prepared with or without the assistance of the Coordinator, can be filed with the following Committees, with a copy to the Coordinator for your campus:

- Complaints against faculty or staff:**
Faculty and Administrative Affirmative Action Committee (complaints by faculty and administrators)
Title IX Grievance Committee (complaints by students)
Human Resources Advisory Committee (complaints by staff)
All of these committees may be contacted:
c/o Office of Human Resources
North Brookings Hall, Room 126
Campus Box 1184
935-5990

Hearing procedures are set out in the Washington University Discrimination and Sexual Harassment Hearing Procedures. These procedures may be obtained from the Office of Human Resources or from any Sexual Harassment Response Coordinator or Advisor.

Complaints against students or student groups:
Director of Judicial Programs
Residential Life Center 10
Campus Box 1250
935-4174

Hearing procedures are set out in the University Judicial Code, found in **Bearings** and **Washington University Faculty Information**. These procedures may also be obtained from the University Judicial Administrator or from the Sexual Harassment Response Coordinators or Advisors.

Whether or not you choose to file a complaint, the University may be required, or may otherwise deem it necessary and protective of the academic community, to commence its own investigation.

V. Protection of rights

The University will not tolerate retaliation or discrimination against persons who report or charge sexual harassment or against those who testify, assist or participate in any investigation, proceeding or hearing involving a complaint of sexual harassment. In this context,

retaliation means speech or conduct that adversely affects another's terms or conditions of employment or education and is motivated by an intent to harm the targeted person because of his or her participation in the filing or investigation of an allegation of sexual harassment. Any such retaliation — or any encouragement of another to retaliate — is a serious violation of University policy and law; independent of whether the particular claim of sexual harassment is substantiated. If you believe you have been subjected to retaliation in violation of this rule, you may use the procedures described above to complain and seek redress.

The University seeks to protect the rights of all persons, accusers and accused, to fair procedures. Accusations of sexual harassment typically have injurious far-reaching effects on the careers and lives of accused individuals. Allegations of sexual harassment must be made in good faith and not out of malice. Knowingly making a false or frivolous allegation of sexual harassment, whether in a formal or informal context, will be treated as a serious offense under this policy and, where it applies, the University Judicial Code. If you believe you have been falsely accused of sexual harassment you may use the procedures of this policy or the University Judicial Code, where applicable, to seek redress. See Section IV.

VI. Obligations of vigilance and reporting

The University can respond to specific instances and allegations of harassment only if it is aware of them. The University therefore encourages anyone who believes that he or she has experienced sexual harassment to **promptly** come forward with inquiries, reports or complaints and to seek assistance from the University. In addition, any University employee who becomes aware of instances or allegations of sexual harassment by or against a person under his or her supervisory authority must report it to those charged with responding to such allegations and reports: the appropriate dean, director or department head or other similar administrator or to the Sexual Harassment Response Coordinator or one of the Advisors. It shall be the responsibility of these individuals to respond to allegations and reports of sexual harassment or refer them to other University officials for such response.

Any dean, director or department head or other similar administrator who becomes aware of information indicating a significant likelihood of sexual harassment must report such information to the Sexual Harassment Response Coordinator for the appropriate campus. These administrators must respond not only when they receive a specific complaint or report alleging improper activity, but also when such matters come to their attention informally. Unconfirmed or disputed allegations should be clearly labeled as such and reports should indicate any steps already taken to investigate or otherwise respond. Administrators may wish to consult with the Coordinator or any of the Advisors prior to investigating or otherwise responding to any situation involving alleged harassment.

VII. Possible sanctions

Possible sanctions for a person found guilty of behavior in violation of this policy include but are not limited to the following:

- oral or written reprimand, placed in the personnel file
- required attendance at a sexual harassment sensitivity program
- an apology to the victim
- oral or written warning
- loss of salary or benefit, such as sabbatical or research or travel funding
- transfer or change of job, class or residential assignment or location (i.e., removing the person from being in a position to retaliate or further harass the victim.)
- fine
- demotion
- suspension, probation, termination, dismissal or expulsion

While counseling is not considered a sanction, it may be offered or required in combination with sanctions. Where alcohol is involved in the sexual harassment, such counseling may include an alcohol abuse program.

If students or student groups are guilty of sexual harassment, any of the sanctions set forth in the University Judicial Code may also be invoked.

VIII. Education

The best way to deal with sexual harassment is to prevent it. Education is essential to eliminating sexual harassment. Washington University has developed an ongoing training program. Please call a Sexual Harassment Response Coordinator or Advisor to find out more about these programs, what sexual harassment is, how to respond to it and what to do when someone asks for advice about sexual harassment.

Approved by the Washington University Senate Council, October 19, 1995.

Approved by the Washington University Senate, April 22, 1996. Revision approved by the Washington University Senate, April 28, 1997.

(This policy supersedes prior University Policies on Sexual Harassment.)

Sexual Harassment Coordinators and Advisors

(as of June 2001)

Hilltop Campus

Coordinator:	Ann B. Prenatt – 935-7746
Advisors:	Lorraine Goffe-Rush – 935-8046 (complaints by faculty, staff and others) Kathy Steiner-Lang – 935-5910 (complaints by students and others) Richard Diemer – 935-4237 (complaints by faculty and others)

Medical Campus

Coordinator:	Barbara Cant – 362-4900
Advisors:	Barbara Cant – 362-4900 (complaints by faculty, staff and others) Dr. Leslie Kahl – 362-7481 (complaints by students and others) Apryle Cotton – 362-7198 (complaints by staff and others)

Washington People

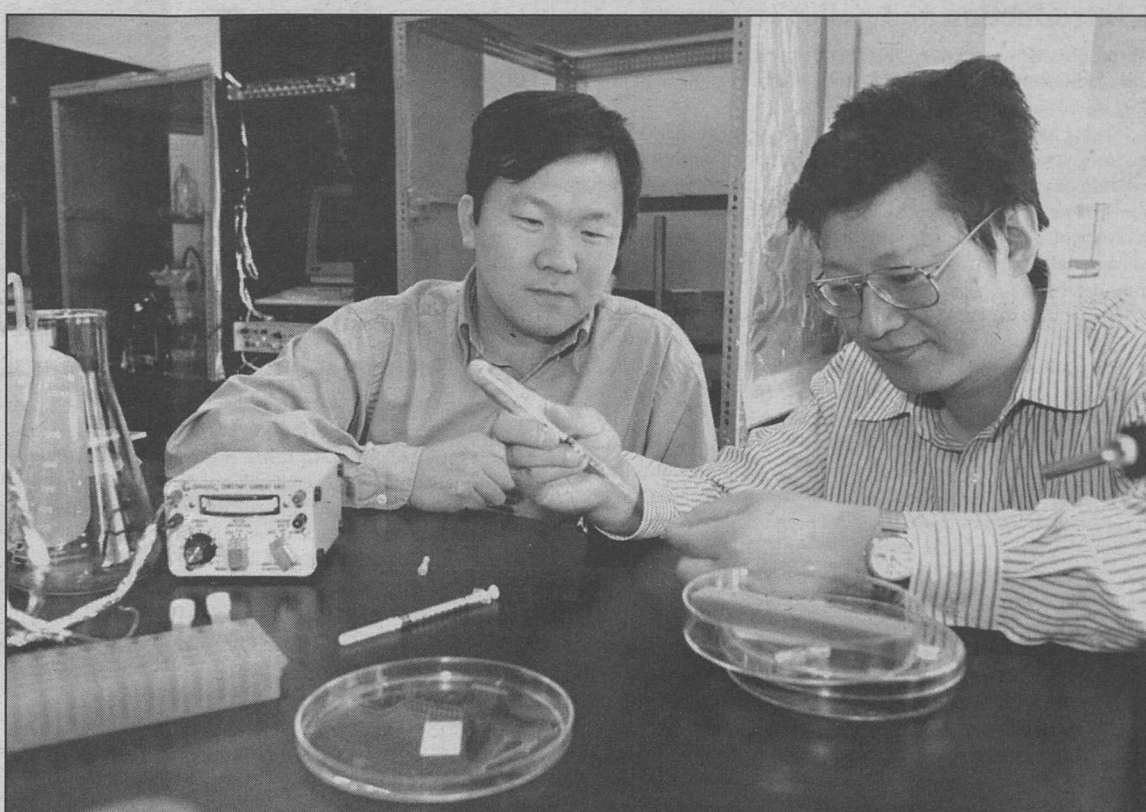
Min Zhuo, Ph.D., is a human bridge, a person who connects seemingly disparate elements into new things.

Culturally, he connects China and the United States, but he also bridges art and science, small towns and big cities, herbal remedies and academic medicine. His research also involves making new connections, both the synaptic ones between nerve cells and other connections between seemingly unrelated fields of study such as pharmacology and learning memory.

He's been in this country for about 13 years. An American citizen, he still has strong emotional ties to his native China.

"Only twice can I ever remember tears coming out of my eyes as I watched TV," Zhuo said. "The first time was watching the events at Tiananmen Square. The other was Sept. 11. My heart belongs to both countries."

Zhuo is an associate professor of anesthesiology, of anatomy and neurobiology and of psychiatry and the chief of basic research for



Min Zhuo, Ph.D. (left), and Feng Wei, research associate in anesthesiology, discuss experiments on brain slices from genetically altered mice. Zhuo is an associate professor of anesthesiology, of anatomy and neurobiology and of psychiatry and the chief of basic research for the Washington University Pain Center.

Nurturing new connections

Min Zhuo, Ph.D., brings his knack for bridging gaps to his studies of chronic pain

By JIM DRYDEN

the Washington University Pain Center. In the last few years, he has published a handful of papers that are moving pain research into new directions and may someday make it possible to effectively treat types of pain currently considered untreatable. At the very least, he hopes to bridge another gap — the gap of understanding.

"Look at traditional Chinese medicines," he explained. "Some things work for some patients, but no one knows why. I have asked my students to look at those remedies and try to identify proteins that may be important. Even when we cannot know whether a treatment will work, trying something is better than trying nothing."

Zhuo's grandfather was an herbal doctor in China. Some of Zhuo's nephews still practice the old style of medicine. He hasn't made it a point to study traditional Chinese medicines, but he may someday, sequencing their genes to look for target proteins that may interact with human proteins to fight pain or do other things.

If he does study those traditional substances, it will be another opportunity to bridge a gap — between Chinese tradition and modern science.

Growing up in China

Zhuo was born in the remote town of Xiapu in the province of Fujian. He grew up during the Cultural Revolution, when the Red Guards turned China's social order upside down. Most ordinary students did not have the chance

to receive a college education, and many were sent to the countryside for hard labor work after high school.

"It was that sort of environment all the way to junior high school," Zhuo recalled. "But I think sometimes when you grow up in an environment that is not favorable, it can turn out to be a good thing. It taught me to work harder for what I wanted."

When he was about 7 years old, Zhuo's mother began

"When I first met Min, I realized that he had ideas and insights that could radically change the way in which we treat pain. Since coming to Washington University, he has developed many of these ideas, identifying new potential targets for analgesic drugs and establishing himself as one of the world leaders in pain research."

ALEX S. EVERS

teaching him how to draw. He was very interested in art, and because he was worried that he might never get a fair shot at a good university, he worked very hard practicing painting and drawing.

"Even if you're from a 'bad' family, if you have artistic talent, you can still get a decent job because there's always a need for people with those kinds of skills," he said.

So before he became a scientist, Zhuo spent his time preparing to be an artist. Even after entering college, he continued to draw and create traditional Chinese paintings. He still draws and paints today, having sold more than 200 works.

"It helps if you can put the concepts in a simple picture," he said. Zhuo often uses his artistic skills to draw hypothetical models for his experimental observations. Some of the slides he uses in lectures and seminars are handmade. "It simply works faster than any computer programs."

Coming to the West

During Zhuo's years in high school, Deng Xiao Ping came to power in China and opened up opportunities for good students, regardless of background. Strong

academically, Zhuo's major worry was English. It was included on the national exam, but in his remote hometown, very few people could speak it.

One of his father's friends taught Zhuo the English alphabet and enough other information to pass the test, but he said he didn't really learn English until college and didn't learn it well until after he came to the United States.

Zhuo studied biology at the University of Science and Technology of China, a leading university in China, then earned a master's degree at the Shanghai Institute of Physiology, studying with Dr. Chiang Chen-Yu, whose

Eric Kandel.

It was both a personally and professionally rewarding time for Zhuo, as he investigated learning memory and began thinking of ways to apply those principles to pain research. On a personal note, he met Kelly Bin Wei, the woman who would become his wife.

After Columbia, Zhuo was hired to come to Washington University. But he knew it would be six months to a year before his lab was set up, so he spent that time doing another post-doctoral fellowship at Stanford University.

"Preventing and treating pain is one of the essential goals of anesthesiology," said Alex S. Evers, M.D., the Henry Eliot Mallinckrodt Professor and head of the Department of Anesthesiology and professor of medicine and of molecular biology and pharmacology. "When I first met Min, I realized that he had ideas and insights that could radically change the way in which we treat pain. Since coming to Washington University, he has developed many of these ideas, identifying new potential targets for analgesic drugs and establishing himself as one of the world leaders in pain research."

Zhuo continues to explore the causes and solutions of chronic pain, hoping to bridge the gaps that exist between the function of the brain and other mechanisms for chronic pain.

"Just like when we see a picture or listen to a piece of music, the brain simply memorizes the insult during an injury," he said.

It is very difficult to erase such memories when they evoke fear or pain, but Zhuo believes exploring the mechanisms for chronic pain not only will provide the basis for future treatment of the pain in patients but also might reveal insights about how memories are formed both in humans and in animals.

Min Zhuo, Ph.D.

Born: Xiapu, Fujian, People's Republic of China

Education: University of Science and Technology, Anhui, China, B.S. in physiology and biophysics, 1985; Shanghai Institute of Physiology, Shanghai, China, M.S. in physiology, 1987; University of Iowa, Iowa City, Ph.D. in pharmacology, 1992

University position: Associate professor of anesthesiology, of anatomy and neurobiology and of psychiatry, and chief of basic research for Washington University Pain Center

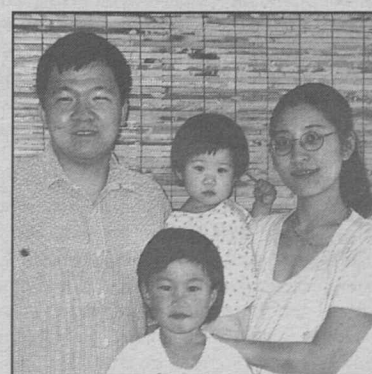
Family: Wife: Kelly Bin Wei; children: Morgan, 4 1/2; Danielle, 2 1/2

Other interests: Traditional Chinese art; traditional Chinese medicine; University of Iowa basketball; Italian restaurants; Mexican food; good wine; and German beer.

Goals: "Sometimes as a scientist, I feel I don't have that much power. I would like to make China a better place, but that's another career. No one can do everything. In my view, working to understand and treat human disease should be the top aim regardless of the style of government. Everybody gets sick. We need to help get them well."



A painting that Zhuo created in 1993. Along the right side the title phrase, "When the Water Gets Warm in the Springtime, the Ducks Are the First To Know."



(From back left) Min Zhuo, daughter Danielle and wife Kelly Bin Wei; (foreground) daughter Morgan.

entire research career was devoted to learning how acupuncture limited pain. It was in Shanghai that Zhuo first began to focus on pain as an area of research.

While in Shanghai, he decided to stay in China and pursue a career in science, but at an international meeting a neuroscience student from Paris convinced him that he could be much more productive if he left China for the West. So he changed his mind and began sending out 10 or 20 letters per day to investigators in the United States.

"I still have the letter somewhere," said Jerry Gebhart, Ph.D., head of the Department of Pharmacology at the University of Iowa. "He is the only person who ever submitted a testable hypothesis and research protocol with his application. It certainly got my attention."

In Iowa, Zhuo learned how to fish. He sold art at the university's twice-annual arts festival, and "I learned how to hang out in a bar and speak English," he laughed. "I learned to drink a lot of beer, too!"

Taking on pain

From Iowa, Zhuo went to Columbia University for a post-doctoral fellowship in the laboratory of Nobel laureate